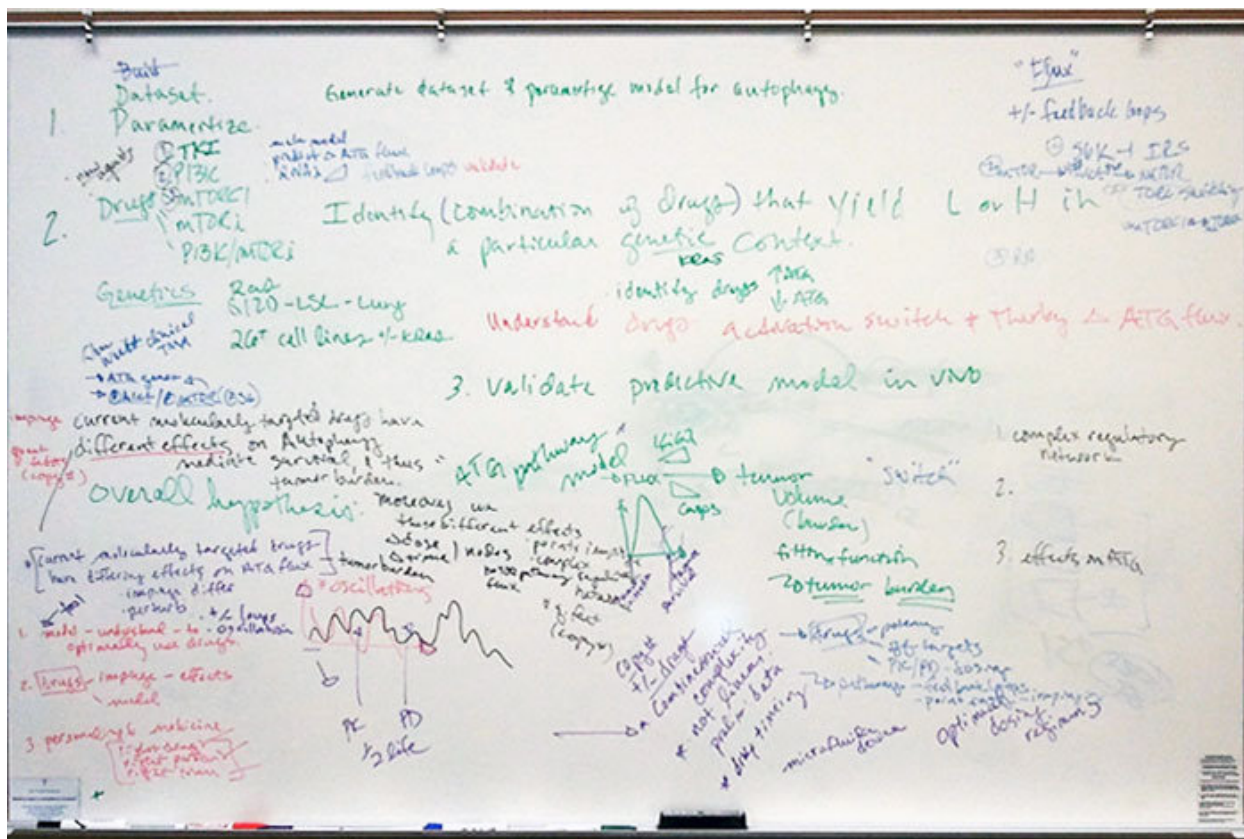


November 2, 2015



Laboratory helps Ohkay Owingeh find math, science tutors

Specific math areas for tutoring included pre-algebra, algebra 1 and 2, trigonometry and geometry. Science areas covered physical science, chemistry, biology and physics.

Los Alamos National Laboratory's Community Programs Office, the University of New Mexico-Los Alamos, Los Alamos High School and the Small Business Development Center have entered a new partnership to provide 15-week internship opportunities to

local college and high school students. The result of this partnership is a new program, the Community Internship Collaboration.

At the crux of the Community Internship Collaboration is a process of mutual selection. Not only are local businesses able to select interns who are a good fit for them, but the students apply directly for open internships based on their skills and interests.

Throughout the program, students will learn from their mentors at work, from faculty mentors and from each other through a series of classes and group and panel discussions.

The Small Business Development Center is currently reaching out to local businesses, and student orientations will be held soon at both UNM-Los Alamos and Los Alamos High School. The first internship session is set to begin in November, with a second session planned for the new year.

For more information about the Community Internship Collaboration, contact the University of New Mexico's Laura Loy (lloy@unm.edu).

Los Alamos, Van Andel Research Institute to study lung cancer

A multidisciplinary team from Los Alamos National Laboratory and Van Andel Research Institute, a nonprofit biomedical research and science education organization in Grand Rapids, Michigan, is designing a mathematical model for lung cancer that will be used to develop novel cancer treatment strategies.

Lung cancers are responsible for 27 percent of cancer-related deaths in the U.S.—more than any other cancer.

The project is funded by a recently awarded \$2.6 million grant from the National Institutes of Health's National Cancer Institute and is based on an earlier model developed by the team. The newly awarded funding will allow the teams to further enhance and refine their computational model.

"Cancer biology is extremely complicated," project leader Jeffrey MacKeigan of Van Andel said. "Expanding our existing model will give us an important tool for better understanding and better combating one of the most common and deadliest forms of lung cancer."

Once the new model is complete, the team will be able to systematically evaluate a large number of possible therapeutic strategies through simulations to identify the most promising ones, which can then be evaluated experimentally.

Lab to team with Procter & Gamble in clean energy manufacturing initiative

Clean energy manufacturing efforts will get a boost, thanks to a new Los Alamos National Laboratory and industry collaboration pilot announced by the U.S. Department of Energy's Clean Energy Manufacturing Initiative. The Laboratory and consumer products company Procter & Gamble will form one of the initiative's seven "innovation pairs" working to bring sustainable ideas from some of the nation's top scientists into the day-to-day world of manufacturing.

"Los Alamos plans to coordinate with P&G to explore industry-ready innovations and cutting-edge scientific capabilities that could benefit manufacturing within household brands," said Melissa Fox of Los Alamos National Laboratory's Applied Energy Program Office. "The goal will be to select tangible projects that will help P&G meet their long-term sustainability goals, ultimately improving the environmental footprint of the products their consumers use."

The areas of focus include energy, water, waste and transportation. The Los Alamos and P&G team will focus on accelerating sustainable manufacturing within P&G's 129 manufacturing sites around the world. Potential study areas could include equipping manufacturing plants with cost-effective renewable energy sources, implementing innovative recycling and re-use streams and new approaches to water re-use and recycling.

Community Connections features news and opportunities that grow out of the Laboratory's Good Neighbor Pledge: "To partner with our neighbors on strengthening math and science learning, diversifying the economy and expanding community giving in northern New Mexico."

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